



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of: **H. Meade et al.**

Serial No.: **10/722,903**

Group No.: **1632**

Filed: **11/26/2003**

Examiner: **Unknown**

For: **Modified Antibodies Stably Produced in Milk and Methods of Producing Same**

Attorney Docket Number: **GTC-53**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
WITHIN THREE MONTHS OF FILING APPLICATION OR BEFORE MAILING OF A  
FIRST OFFICE ACTION ON THE MERITS (37 CFR 1.97(b))**

**1. Authority**

Pursuant to 37 CFR §§ 1.56 and 1.97-1.99, the Applicant cites to the Examiner documents containing information which, in good-faith judgment of the Applicant, may be relevant to the subject matter claimed in the above-identified application. The Applicant also encloses copies of the English-language cited documents.

In submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, or the extent of any search performed, or that more relevant information does not exist.

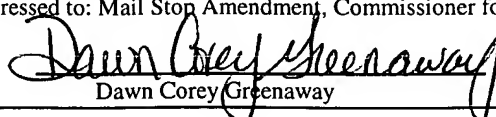
In submitting this Information Disclosure Statement, the Applicant makes no representation that any document cited in this Information Disclosure Statement is, or is considered to be prior art as defined by 35 USC §§ 102 and 103.

**2. Time of Transmittal of Accompanying Information Disclosure Statement**

The Information Disclosure Statement transmitted herewith is being filed *after* three months of the filing date of this national application but *before* the mailing date of the first Office action on the merits.

**CERTIFICATE OF MAILING (37 CFR 1.8a)**

I hereby certify that on 9/14/2005 this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Dawn Corey Greenaway

A copy of the PCT International Search Report from a counterpart application is enclosed. Legible copies of all items listed in Form PTO-1449 accompany this information statement. Cumulative patents or publications identified in the attached PCT Search Report are not enclosed.

I hereby certify that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement. 37 CFR 1.97 (e) (1).

It is Applicant's understanding that no fee is due; however, if the Applicant is incorrect, please charge any necessary fees for the above-captioned application to Deposit Account No. 502092.

The Applicant respectfully requests that:

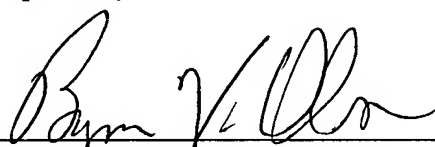
- a. The Examiner consider the cited information in reaching a determination concerning the patentability of the pending claims; and
- b. The enclosed Form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

The person making this statement is the attorney who signs below on the basis of the information in the attorney's file.

Respectfully submitted,

Dated: \_\_\_\_\_

By: \_\_\_\_\_

  
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Substitute for form 1449A/PTO

Complete if Known

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 5

Application Number	10/722,903
Filing Date	November 26, 2003
First Named Inventor	Harry Meade
Art Unit	1632
Examiner Name	
Attorney Docket Number	GTC-53

**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Document Number		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)				
		US-4,485,040		Roger et al.	11/27/1984	
		US-4,644,056		Kothe et al.	2/17/1987	
		US-4,897,465		Cordle et al.	1/30/1990	
		US-6,268,487		Kutzko et al	7/31/2001	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)						
		WO	94/23046					
		WO	97/07669					
		EP	467 482 B1					
		FR	2,487,642					

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at www.uspto.gov. or MPEP 901/04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/619,055
				Filing Date	July 14, 2003
				First Named Inventor	Yann Echelard
				Group Art Unit	1632
				Examiner Name	
Sheet	2	of	5	Attorney Docket Number	GTC-53

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
		Adelman, et al., <i>DNA</i> 2:183, (1983)		
		Alexander, et al., <i>EUR. J. BIOCHEM.</i> 178, 395-401 (1988)		
		Alexander, et al., <i>NUCLEIC ACIDS RES.</i> 17, 6739 (1989)		
		Baguisi, et al. <i>NATURE BIOTECH.</i> , <u>vol.</u> 17, 456-461 (1999)		
		Brignon et al., <i>FEBS LETT.</i> 188, 48-55 (1977)		
		Campbell, et al., <i>NATURE</i> , <u>vol.</u> 380, 64-66 (1996)		
		Campbell et al., <i>NUCLEIC ACIDS RES.</i> 12, 8685-8697 (1984)		
		Chothia, C. et al., <i>J. Mol. Biol.</i> 196:901-917 (1987)		
		Cibelli, et al., <i>SCIENCE</i> , <u>vol.</u> 280 (1998)		
		Clark, et al., <i>BIO/TECHNOLOGY</i> <u>7</u> : 487-492 (1989)		
		Crea, et al. <i>Proc. Natl. Acad. Sci. USA</i> , 75: 5765 (1978)		
		DiTullio, <i>BIO/TECHNOLOGY</i> <u>10</u> :74-77 (1992)		

Examiner Signature	Date Considered
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<b>Sheet</b>   3   <b>of</b>   5	<b>Application Number</b>	10/619,055
	<b>Filing Date</b>	July 14, 2003
	<b>First Named Inventor</b>	Yann Echelard
	<b>Art Unit</b>	1632
	<b>Examiner Name</b>	
	<b>Attorney Docket Number</b>	GTC-53

	Ebert, et al., <i>Bio/Technology</i> 12:699 (1994)	
	Feinberg and Vogelstein, <i>Anal. Bioc.</i> , 132: pp. 6-13 (1983)	
	Gordon, et al., <i>BIO/TECHNOLOGY</i> 5: 1183-1187 (1987)	
	Gorodetsky, et al., <i>GENE</i> 66, 87-96 (1988)	
	Gould, et al., <i>Proc. Natl. Acad. Sci.</i> , 86:pp. 1934-1938 (1989)	
	Hall, <i>BIOCHEM. J.</i> 242, 735-742 (1987)	
	Herrmann and Frischauf, <i>METHODS ENZYMOLOGY</i> , 152: pp. 180-183 (1987)	
	Ivanov, et al., <i>BIOL. CHEM. Hoppe-Seyler</i> 369, 425-429 (1988)	
	Jamieson, et al., <i>GENE</i> 61, 85-90 (1987)	
	Jones, et al., <i>J. BIOL. CHEM.</i> 260, 7042-7050 (1985)	
	Kabat E. A., Wu, T. T., Perry, H. M., Gottesman, K. S., and Foeller, C., Sequences of Proteins of Immunological Interest, 5th Ed, Department of Health and Human Services, Government Printing Office, Washington, D. C. (1991)	
	Kato et al., <i>SCIENCE</i> , vol. 282, 2095-2098 (1998)	

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SignatureDate  
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				<b>First Named Inventor</b>	Yann Echelard
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				<b>Examiner Name</b>	
<b>Sheet</b>	4	<b>of</b>	5	<b>Attorney Docket Number</b>	GTC-53

		Lacy, et al., A LABORATORY MANUAL, Cold Springs Harbor, NY 1986	
		Mercier & Vilotte, J. DAIRY SCI. 76, 3079-3098 (1993)	
		Paul, et al., <i>Fundamental Immunology</i> , 3 <sup>rd</sup> Ed. (1993).	
		Richards, et al., J. BIOL. CHEM. 256, 526-532 (1981)	
		Ramshaw I, Ruby J, Ramsay A, Ada G, Karupiah G., Expression of cytokines by recombinant vaccinia viruses: a model for studying cytokines in virus infections in vivo. Immunol Rev. 1992 Jun;127:157-82.	
		Sambrook, et al., <i>Molecular Cloning: A Laboratory Manual</i> , 2 <sup>nd</sup> ed., Cold Spring Harbor Laboratory, (Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, (1989)	
		Schnieke, et al., SCIENCE, vol. 278., 2130-2133 (1997),	
		Selgrath, et al., Theriogenology, pp. 1195-1205 (1990)	
		Soulier, et al., FEBS Letts. 297: 13 (1992)	
		Stewart, NUCLEIC ACIDS RES. 12, 389 (1984)	
		Swaigood, Chemistry of milk protein, Developments in Dairy Chemistry -1 (Ed. P.D. Fox). Applied Science Publisher; London, 1-59 (1982).	
		THOMAS, PROC Natl. Acad. Sci., 77:5201-5205 (1980)	
		Vilotte, et al., BIOCHIMIE 69, 609-620 (1987)	

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of

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Application Number

10/619,055

Filing Date

July 14, 2003

First Named Inventor

Yann Echelard

Art Unit

1632

Examiner Name

Attorney Docket Number

GTC-53

		Wakayama, et al., NATURE, vol. 394, 369-374 (1998)	
		Wells, et al., BIOL. REPROD., vol. 57:385-393, (1997)	
		Wells, et al., Gene, 34:315 (1985)	
		Yu-Lee & Rosen, J. BIOL. CHEM. 258, 10794-10804 (1983)	

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